

ABSTRACT

Reinforced high early-strength cementitious members are made from water and  
5 strength generating ingredients, which include a hydraulic cement, a polycarboxylate  
dispersant and structural synthetic fiber. The strength generating ingredients provide  
corrosion resistance by avoiding the use of steel reinforcing members, increased ductility  
and load bearing capacity while developing a high early-strength of at least about 1,400  
10 pounds per square inch (psi) flexural strength and at least about 7,500 pounds per square  
inch (psi) compressive strength within about 24 hours after placing the cementitious  
composition in a mold.